

*Sweet Micro Systems*

150 Chestnut Street

Providence, Rhode Island 02903

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Hello,

Thank you for taking the time to learn more about MOCKINGBOARD™. We have enclosed a section of the introduction from the MOCKINGBOARD™ User's Manual for your information. The introduction should give you a general overview of the content of the User's Manual. Also, enclosed is a Feature Summary consisting of the design and the capability of MOCKINGBOARD™.

We believe that sound and speech is now and will be an integral part of computing. In that regard, a growing number of software companies will be supporting the MOCKINGBOARD™ enhanced programs.

Thank you again for your interest in MOCKINGBOARD™. If you have any further questions or need more information please feel free to call.

Sincerely,



Sherri Altrui  
Customer Service Representative



The following is an excerpt from the MOCKINGBOARD™ User's Manual:

## INTRODUCTION

Mockingboard peripherals are a series of Apple II compatible boards devoted to sound effects generation and speech synthesis. The concept behind the Mockingboard series is to provide you, the user, with a sophisticated new tool that can be utilized to enhance your programs without complex programming techniques. We want you to enjoy the experience and be able to utilize this tool in all your programs. Therefore, much of the complexity of generating the various sound effects and speech have been assumed by the hardware.

Mockingboard series currently features the Sound I, a sound effects generator; Sound II, a dual sound effects generator; Speech I, a speech synthesizer; and Sound/Speech I, a combination sound effects generator and speech synthesizer. Sound I board can produce a wide variety of sounds, ranging from a gunshot to musical notes. The Sound II board was designed to produce two independent sounds simultaneously. The board can produce a continuous sound, such as a train, from one speaker and at the same time, produce a gunshot from the other speaker. Speech I board produces synthesized speech by sequencing phonemes (basic sound units of speech) to form words. Finally, all of the above features were combined onto one board to produce Sound/Speech I. This board can effectively produce a variety of sound effects and continuous speech, while drastically reducing the complexity of the software normally required.

Each section in this manual will be devoted primarily to programming information for each board. Some program listings have been included to illustrate the ease of programming. The demonstration disk, included with your board, is not copy protected so that you may view all of the program listings. This will enable you to see and hear the assortment of sounds produced from variations of the same program. One added feature is that each sample program is portable so that you can utilize the individual modules in your programs.



**MOCKINGBOARD™ SOUND/SPEECH I**  
**Feature Summary - Apple Version**

The speech portion of MOCKINGBOARD™ uses the Votrax SC-01 speech synthesizer.

- a) Unlimited vocabulary speech synthesis
- b) Programmable pitch level
- c) Automatic inflection
- d) 10-20 byte/second data rate

The sound portion of MOCKINGBOARD™ uses General Instrument's AY-3-8910 programmable sound generator.

- a) Full software control of sound generation
- b) Many sounds are processor independent
- c) Three independently controlled analog channels
- d) Programmable tone and noise
- e) Programmable envelope control
- f) Programmable amplitude

MOCKINGBOARD™ also uses two 6522 versatile interface adapters to interface the speech and sound chips to the Apple.

- a) Two eight bit bidirectional ports
- b) On chip latching
- c) Two sixteen bit programmable interval timers
- d) Expanded "handshake" allows positive control of data transfer
- e) Interrupt generation capability

Two one watt amplifiers can drive 8 ohm speakers directly.

- a) Independent amplification - one for the speech channel, one for the sound channel
- b) Volume controls on board

MOCKINGBOARD™ is slot independent.

**MOCKINGBOARD can be programmed in any language.**

- a) Applesoft
- b) Integer Basic
- c) 6502 Assembly Language
- d) Apple Fortran (with proper patch)
- e) Apple Pascal (with proper patch)
- f) Apple CP/M (with proper patch)

**MOCKINGBOARD™ is fully compatible with the following Apple Computers:**

- a) Apple II
- b) Apple II Plus
- c) Apple II e
- d) Apple III (in emulation mode)

**The MOCKINGBOARD™ package contains the following:**

- a) MOCKINGBOARD™ Sound/Speech I
- b) Cable
- c) User Manual
- d) Demonstration Disk

**Thank you for your interest in MOCKINGBOARD™. For further technical information, please contact Sweet Micro Systems directly.**

Sweet Micro Systems proudly introduces the

# mockingboard™

Compatible with Apple II and Apple II Plus microcomputers, these single board advances bring excitement and realism to any type of programming.

From now on, every Apple II user can add sound effects and speech to programming and gaming by simply plugging in Mockingboard. With the low cost addition of the Text to Speech Algorithm, this new capability is expanded further and any typed words or phrases are clearly spoken.

These added dimensions bring vitality to every type of computer use. Your menus speak, your error messages supply advice or new directions — user friendliness takes on new meaning. Games explode to life and game characters develop personalities.

Designed to answer specific requirements and priced to fit any budget, Mockingboard products allow you to select just the capability you need.

## **SOUND/SPEECH I**

Single board

\$299

Apple II compatible speech synthesizer which offers unlimited vocabulary plus simultaneous capability of hundreds of sound effects.

## **SOUND II**

\$199

Apple II compatible sound effects generator produces two distinct, simultaneous sounds via separate audio channels.

## **SPEECH I**

\$149

Apple II compatible speech synthesizer producing unlimited vocabulary.

## **SOUND I**

\$99

Apple II compatible sound effects generator capable of producing a wide ranging repertoire of sounds.

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